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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,379	04/06/2005	Guofu Zhou	NL 021000	4907
24737 7590 05/16/2007 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			EXAMINER CHOWDHURY, AFROZA Y	
			ART UNIT 2609	PAPER NUMBER
			MAIL DATE 05/16/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/530,379	Applicant(s) ZHOU ET AL.	
	Examiner Afroza Y. Chowdhury	Art Unit 2609	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>9/28/2006</u> | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Specification

1. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (l) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 1 recites the limitation **"picture-value"** in line 13 and **"inter-picture value"** in line 15. There is insufficient antecedent basis for this limitation in the claim.

4. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, lines 13 and 15, page 7, the phrase **"picture value"** and **"inter-picture value"** are not clear. What does picture value and inter-picture value mean?

5. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 5, line 13-15, page 8, the phrase **"the sequence of preset values has a last preset value with equal sign as the sign of the subsequent picture value"** is not clear. What does **"the sign of the subsequent picture value"** mean? How is it equal to the last preset value?

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Webber (US Pub. 2002/0180687).

As to claim 1, Webber discloses an electrophoretic display panel for displaying a picture and a subsequent picture comprising:

a first substrate (fig. 1A(114)) and a second opposed substrate (fig. 1A, Note; It is inherent for an electrophoretic display to have two substrates opposed to each other);

an electrophoretic medium between the substrates (fig. 1A(102), page 3, [0036]);

a plurality of pixels (page 3, [0036], Note: It is inherent for the display to have a plurality of pixels);

a first electrode (fig. 1A(110), page 3, [0036], front electrode) and a second electrode (fig. 1A(112), page 3, [0036], rear electrode) associated with each pixel for receiving a potential difference;

and drive means (page 4, [0039]);

the electrophoretic medium (fig. 1A, 1B, page 3, [0036]) being able to provide each pixel with an appearance, being one of a first (fig. 9, page 4, [0039], white) and a second (fig. 9, page 4, [0039], black) extreme appearance and intermediate

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appearances (fig. 9, page 9, [0089], gray) between the first and the second extreme appearance,

and the drive means (page 4, [0039]) being able to control for each pixel the potential difference to have a picture value to provide the pixels with a respective picture appearance being one of the appearances (fig. 9, page 4, [0039], white, gray, black) in dependence of the picture to be displayed,

subsequently to have an inter-picture value (page 6, [0052]) to provide the pixels with a respective inter-picture appearance (fig. 9, page 4, [0039], gray),

and subsequently to have a subsequent picture value (page 6, [0052]) to provide the pixels with a respective subsequent picture appearance being one of the appearances (fig. 9, page 4, [0039], white, gray, black) in dependence of the subsequent picture to be displayed,

wherein the drive means (page 4, [0039]) are able to control for each pixel an estimate potential difference as the inter-picture value (page 6, [0052]) to provide the pixels with a respective estimate picture appearance as the inter-picture appearance (fig. 9, page 4, [0039], gray).

As to claim 2, Webber teaches a display panel characterized in that the respective estimate picture appearance is substantially equal to one of the extreme appearances associated with the subsequent picture appearance (fig. 9, page 4, [0039], white, gray, black).

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As to claim 3, Webber teaches a display panel characterized in that the estimate picture appearance of each pixel is substantially equal to the first extreme appearance (fig. 9, page 4, [0039], white) if the respective subsequent picture appearance is optically closer to the first extreme appearance than to the second extreme appearance (fig. 9, page 4, [0039], black), and to the second extreme appearance otherwise.

As to claim 4, Webber discloses a display panel characterized in that the drive means (page 4, [0039]) are further able to control for each pixel the potential difference for displaying the subsequent picture to have a sequence of preset values (page 6, [0052]),

the preset values in the sequence alternating in sign and having an absolute value in the order of the subsequent picture value (page 6, [0052]),

and to apply each preset value in the sequence for a duration being at least a factor of two smaller than a largest duration of the durations during which the subsequent picture values will be applied, before having the subsequent picture value (page 6, [0052]).

As to claim 5 Webber teaches a display panel characterized in that the sequence of preset values has a last preset value with equal sign as the sign of the subsequent picture value (page 4, [0039]).

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Afroza Y. Chowdhury whose telephone number is 571-270-1543. The examiner can normally be reached on 7:30-5:00 EST, 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571-272-7674. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AC

5/11/2007


AMARE MENGISTU
SUPERVISORY PATENT EXAMINER